

Purified anti-mouse I-A^k (A β ^k) Antibody

Catalog# / Size	109902 / 500 μ g
Clone	10-3.6
Regulatory Status	RUO
Other Names	MHC class II
Isotype	Mouse (CWB) IgG2a, κ
Description	The 10-3.6 antibody reacts with the β chain of the I-A ^k MHC class II alloantigen. This class II molecule is expressed on antigen presenting cells (including B cells) and a subset of T cells from H-2 ^k bearing mice and involved in antigen presentation to T cells expressing CD3/TCR and CD4 proteins. The 10-3.6 antibody cross-reacts with I-A ^{f,r,s} antigens and I-A ^{g7} of NOD mice; it does not react with other haplotypes (e.g., b, d, p, q).

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	C3H mouse splenocytes
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested IHC-F, IP - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is \leq 0.25 μ g per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Additional reported applications (for the relevant formats) include immunoprecipitation ^{1,2} , protection against autoimmune IDDM ³ , <i>in vitro</i> blocking of antigen-specific MHC-restricted responses and <i>in vivo</i> inhibition of lymphoma growth ⁴ , and immunohistochemical staining ⁵ of acetone-fixed frozen sections. This clone does not cross react with other haplotypes (e.g. b, d, p, q).
Application References	<ol style="list-style-type: none">Landais D, <i>et al.</i> 1986. <i>J. Immunol.</i> 137:3002. (IP)Kupinski JM, <i>et al.</i> 1983. <i>J. Immunol.</i> 130:2277. (IP)Kappler JW, <i>et al.</i> 1981. <i>J. Exp. Med.</i> 153:1198.Alisauskas RM, <i>et al.</i> 1986. <i>Immunopharmacology</i> 12:1.Reis e Sousa and Germain 1999. <i>J. Immunol.</i> 162:6652. (IHC)Yui MA, <i>et al.</i> 2010. <i>J. Immunol.</i> 185:284. PubMedGaudreau S, <i>et al.</i> 2007. <i>J. Immunol.</i> 179:3638. (FC)
Product Citations	<ol style="list-style-type: none">Wu X, <i>et al.</i> 2022. <i>J Neuroinflammation.</i> 19:253. PubMedDrake JR, <i>et al.</i> 2019. <i>Immunohorizons.</i> 3:28. PubMedKhosravi-Maharlooei M, <i>et al.</i> 2021. <i>J Autoimmun.</i> 119:102612. PubMed
RRID	AB_313451 (BioLegend Cat. No. 109902)

Antigen Details

Structure	β chain of MHC class II
Distribution	B cell and activated T cells, APCs of H-2 ^b mice
Function	Antigen presentation
Ligand/Receptor	CD3/TCR, CD4
Cell Type	Antigen-presenting cells, B cells, T cells, Tregs
Biology Area	Immunology, Innate Immunity
Molecular Family	MHC Antigens
Antigen References	1. Watts C. 1997. <i>Ann. Rev. Immunol.</i> 15:821. 2. Pamer E, <i>et al.</i> 1998. <i>Ann. Rev. Immunol.</i> 16:323.
Gene ID	14960

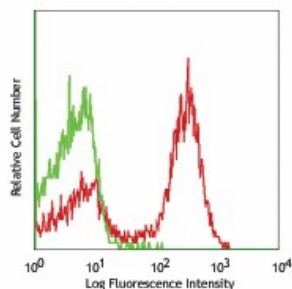
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

FITC anti-mouse I-A^k (A β ^k), PE anti-mouse I-A^k (A β ^k), Purified anti-mouse I-A^k (A β ^k)

Product Data



C3H mouse splenocytes stained with 10-3.6 purified, followed by anti-mouse IgG2a FITC

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